AMENDMENTS TO THE CLAIMS

For the Examiner's convenience, all pending claims are set forth below and have been

amended where noted:

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1. (Currently Amended) An method system for communication for a supervisory control

and data acquisition (SCADA) system, the SCADA system comprising:

(a) an enterprise server;

(b) at least one intelligent electronic device (RTU), wherein the RTU measures a

physical process and stores digital data representative of the measurement in a

memory area for transmission; and said RTU has software that includes a generic

encapsulation layer (GEL) and automation software;

(c) a communication software (AES) linking the enterprise server with the at least

one RTU wherein the AES is adapted to simultaneously handle multiple types of

telemetry and different SCADA protocols of the at least one RTU for

measurement and control: and wherein a configuration is communicated to the at

least one RTU using the AES.

2. (Currently Amended) The method comprising the steps of A method for communication

for a supervisory control and data acquisition (SCADA) system. the SCADA system

comprising:

(a) communicating a command from the enterprise server to said at least one RTU

via the using AES to configure said the at least one RTU; wherein the AES is

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adapted to simultaneously handle multiple types of telemetry and different

SCADA protocols of the at least one RTU for measurement and control:

- (b) permitting said the at least one RTU to receive data input and to store said data; and
- (c) transmitting said data back from the <u>at least one</u> RTU to the AES and—the enterprise server <u>with AES resident</u> thereon.
- (Currently Amended) The method of claim 12, wherein a configuration functionality is communicated to said the at least one RTU without the use of primary signal injection equipment using the AES.
- 4. (Currently Amended) The method of claim 1, wherein said RTU comprises: A system for communication for a supervisory control and data acquisition (SCADA) system. the SCADA system comprising:
 - (a) an enterprise server;
 - (b) at least one intelligent electronic device (RTU), wherein the RTU measures a physical process and stores digital data representative of the measurement in a memory area for transmission: and said RTU has software that includes a generic encapsulation layer (GEL) and automation software:
 - (c) a communication software (AES) linking the enterprise server with the at least one RTU, wherein the RTU comprises:

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(d) (i) an analog-to-digital converter (ADC) for measuring the physical process and converting the measurements into a digital representations of the measured values;

(e) (ii) a memory area for storing digital representations of the measured value;

(f) (iii) at least one processor in communication with said ADC and said memory area, said processor operating upon said digital representation of the measured values according to a predetermined function, and said processor selectively moving said digital representation of the measured values to said memory area;

- (g) (iv) a command register for storing communication commands, said command register being in communication with said processor such that said processor moves said digital representation of the measured values to said memory area when the command register contains an enabling communication command;
- (h) (v) at least one bidirectional port in communication with the AES and enterprise server for transmitting said digital representation of the measured values to the enterprise server from the RTU via the AES; and
- (i) (vi) wherein said bidirectional port receives digital representation of the measured values from the AES such that said processor reconfigures the RTU.

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- 5. The method of claim 1, wherein said RTU comprises: A system for communication for a supervisory control and data acquisition (SCADA) system, the SCADA system comprising:
 - (a) an enterprise server;
 - (b) at least one intelligent electronic device (RTU), wherein the at least one RTU measures a physical process and stores digital data representative of the measurement in a memory area for transmission; and said at least one RTU has software that includes a generic encapsulation layer (GEL) and automation software;
 - (c) a communication software (AES) linking the enterprise server with the at least one RTU, wherein the at least one RTU comprises:
 - (d) (i) an analog-to-digital converter (ADC) for measuring the physical process and converting the measurements into a digital representations of the measured values;
 - (e) (ii) a memory area for storing digital representations of the measured value;
 - (f) (iii) at least one processor in communication with said ADC and said memory area, said processor operating upon said digital representation of the measured values according to a predetermined function, and said processor selectively moving said digital representation of the measured values to said memory area;

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- (g) (iv) a command register for storing communication commands, said command register being in communication with said processor such that said processor moves said digital representation of the measured values to said memory area when the command register contains an enabling communication command;
- (h) (v) an input port in communication with the AES and enterprise server for transmitting said digital representation of the measured values from the enterprise server to the <u>at least one</u> RTU via the AES and wherein said processor reconfigures the RTU.;
- (i) (vi) an output port in communication with the AES and enterpriese server for transmitting digital representation of the measured values from the RTU via the AES to the enterprise server.
- 6. (Currently Amended) The method of claim 4, wherein said automation software of said at least one RTU can perform at least one of the activities: meter utilities, detect abnormal operating conditions, perform data processing, control operating conditions and combinations thereof.
- 7. (Original) The method of claim 5, wherein said automation software of said at least one RTU can perform at least one of the activities: meter utilities, detect abnormal operating conditions, perform data processing and control operating conditions.

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8. (Currently Amended) The method system of 1, wherein said at least one RTU continues

to operate said automation software while receiving communication commands and

executing reconfiguation commands.

9. (Currently Amended) The method system of claim 1, wherein said AES continues

communicating with connected RTUs while an additional enterprise server is added to

the SCADA system.

10. (Currently Amended) The method system of claim 1, wherein said AES continues

communicating with connected RTUs while an additional enterprise server is removed

from the SCADA system.

11. (Currently Amended) The method system of claim 1, wherein said AES continues

communicating with connected RTUs while an additional RTU is added to the system.

12. (Currently Amended) The method system of claim 1, wherein said AES continues

communicating with connected RTU's when an RTU is deleted from the system.

13. (Currently Amended) The method system of claim 4, wherein said bidirectional port is in

electrical communication with the AES.

14. (Currently Amended) The method system of claim 4, wherein said bidirectional port is in

wireless communication with the AES.

15. (Currently Amended) The method system of claim 5, wherein said input port, output port,

or combination thereof is in electrical communication with the AES.

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16. (Currently Amended) The method system of claim 5, wherein said input port, output port, or combination thereof is in wireless communication with the AES.

- 17. (Currently Amended) The method system of claim 1, wherein said at least one RTU is configured with configuration software (ARME).
- 18. (Currently Amended) The method system of claim 1, wherein said AES utilizes separate configuration software.
- 19. (New) The system of 4, wherein said at least one RTU continues to operate said automation software while receiving communication commands and executing reconfiguation commands.
- 20. (New) The system of claim 4, wherein said AES continues communicating with connected RTUs while an additional enterprise server is added to the SCADA system.
- 21. (New) The system of claim 4, wherein said AES continues communicating with connected RTUs while an additional enterprise server is removed from the SCADA system.
- 22. (New) The system of claim 4, wherein said AES continues communicating with connected RTUs while an additional RTU is added to the system.
- 23. (New) The system of claim 4, wherein said AES continues communicating with connected RTU's when an RTU is deleted from the system.
- 24. (New) The system of claim 4, wherein said RTU is configured with configuration software (ARME).

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- 25. (New) The system of claim 4, wherein said AES utilizes separate configuration software.
- 26. (New) The system of 5, wherein said at least one RTU continues to operate said automation software while receiving communication commands and executing reconfiguation commands.
- 27. (New) The system of claim 5, wherein said AES continues communicating with connected RTUs while an additional enterprise server is added to the SCADA system.
- 28. (New) The system of claim 5, wherein said AES continues communicating with connected RTUs while an additional enterprise server is removed from the SCADA system.
- 29. (New) The system of claim 5, wherein said AES continues communicating with connected RTUs while an additional RTU is added to the system.
- 30. (New) The system of claim 5, wherein said AES continues communicating with connected RTU's when an RTU is deleted from the system.
- 31. (New) The system of claim 5, wherein said RTU is configured with configuration software (ARME).
- 32. (New) The system of claim 5, wherein said AES utilizes separate configuration software.
- 33. (New) The system of claim 4, wherein the configuration is communicated to the at least one RTU without the use of primary signal injection equipment using the AES.
- 34. (New) The system of claim 5, wherein the configuration is communicated to the at least one RTU without the use of primary signal injection equipment using the AES.

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35. (New) The method of claim 2, wherein said RTU comprises:

(a) an analog-to-digital converter (ADC) for measuring the physical process and

converting the measurements into a digital representations of the measured

values;

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(b) a memory area for storing digital representations of the measured value;

(c) at least one processor in communication with said ADC and said memory area,

said processor operating upon said digital representation of the measured values

according to a predetermined function, and said processor selectively moving said

digital representation of the measured values to said memory area;

(d) a command register for storing communication commands, said command register

being in communication with said processor such that said processor moves said

digital representation of the measured values to said memory area when the

command register contains an enabling communication command;

(e) at least one bidirectional port in communication with the AES and enterprise

server for transmitting said digital representation of the measured values to the

enterprise server from the at least one RTU via the AES; and

(f) wherein said bidirectional port receives digital representation of the measured

values from the AES such that said processor reconfigures the at least one RTU.

36. (New) The method of claim 35, further comprising automation software in said at least

one RTU for performing at least one of the activities: meter utilities, detect abnormal

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operating conditions, perform data processing, control operating conditions and

combinations thereof.

37. (New) The method of claim 35, wherein said bidirectional port is in electrical

communication with the AES.

38. (New) The method of claim 35, wherein said input port, output port, or combination

thereof is in electrical communication with the AES.

39. (New) The method of claim 2, wherein said RTU comprises:

(a) an analog-to-digital converter (ADC) for measuring the physical process and

converting the measurements into a digital representations of the measured

values;

(b) a memory area for storing digital representations of the measured value;

(c) at least one processor in communication with said ADC and said memory area,

said processor operating upon said digital representation of the measured values

according to a predetermined function, and said processor selectively moving said

digital representation of the measured values to said memory area;

(d) a command register for storing communication commands, said command register

being in communication with said processor such that said processor moves said

digital representation of the measured values to said memory area when the

command register contains an enabling communication command;

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(e) an input port in communication with the AES and enterprise server for transmitting said digital representation of the measured values from the enterprise server to the at least one RTU via the AES and wherein said processor reconfigures the RTU.;

- (f) an output port in communication with the AES and enterprise server for transmitting digital representation of the measured values from the at least one RTU via the AES to the enterprise server.
- 40. (New) The method of claim 39, further comprising automation software in said at least one RTU for performing at least one of the activities: meter utilities, detect abnormal operating conditions, perform data processing and control operating conditions.
- 41. (New) The method of claim 39, wherein said bidirectional port is in wireless communication with the AES.
- 42. (New) The method of claim 39, wherein said input port, output port, or combination thereof is in wireless communication with the AES.
- 43. (New) The method of claim 2, further comprising the step of continuing to operate said RTU and said automation software while receiving communication commands and executing reconfiguration commands.
- 44. (New) The method of claim 2, further comprising the step of configuring the at least one RTU with a first configuration software (ARME).

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45. (New) The method of claim 2, further comprising the step of configuring the AES, with a second configuration software.

- 46. (New) The method of claim 2, wherein said AES continues communicating with connected RTUs while an additional enterprise server is added to the SCADA system.
- 47. (New) The method of claim 2, wherein said AES continues communicating with connected RTUs while an additional enterprise server is removed from the SCADA system.
- 48. (New) The method of claim 2, wherein said AES continues communicating with connected RTUs while an additional RTU is added to the system.
- 49. (New) The method of claim 2, wherein said AES continues communicating with connected RTU's when an RTU is deleted from the system.

Applicant believes that no new matter has been added with these amendments.